Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

- (Previously presented) A method of refolding an insoluble, recombinant, α(2,3)sialyltransferase (ST3Gal3) protein, wherein the ST3Gal3 protein comprises a maltose binding protein domain (MBD), the method comprising the steps of
- (a) solubilizing the insoluble, recombinant, eukaryotic ST3Gal3 protein in a solubilization buffer; and
- (b) contacting the soluble eukaryotic ST3Gal3 protein with a refolding buffer comprising a redox couple to refold the eukaryotic ST3Gal3 protein, wherein the refolded eukaryotic ST3Gal3 protein catalyzes the transfer of a sialic acid sugar from a donor substrate to an acceptor substrate.
- (Previously presented) The method of claim 1, wherein the eukaryotic ST3Gal3 protein is truncated to remove all or a portion of a stem region.
- (Previously presented) The method of claim 1, wherein an unpaired cysteine in the eukaryotic ST3Gal3 protein is removed by substitution with a non-cysteine amino acid.

4. (Canceled)

- 5. (Previously presented) The method of claim 1, wherein the first eukaryotic ST3Gal3 protein further comprises a purification domain selected from the group consisting of a starch binding domain, a thioredoxin domain, a SUMO domain, a poly-His domain, a myc epitope domain, and a glutathione-S-transferase domain.
 - (Canceled)

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- (Previously presented) The method of claim 1, wherein the eukaryotic ST3Gal3 protein is expressed in a bacterial host cell as an insoluble inclusion body.
- (Previously presented) The method of claim 1, wherein a second insoluble, recombinant eukaryotic glycosyltransferase is refolded with the eukaryotic ST3Gal3 protein.
- (Previously presented) The method of claim 8, wherein a third insoluble, recombinant eukaryotic glycosyltransferase is refolded with the eukaryotic ST3Gal3 protein and the second eukaryotic glycosyltransferase.
- (Original) The method of claim 1, wherein the redox couple is selected from the group consisting of reduced glutathione/oxidized glutathione (GSH/GSSG) and cysteine/ cystamine.
- 11. (Original) The method of claim 1, wherein the acceptor substrate is selected from a protein, a peptide, a glycoprotein, and a glycopeptide.

12-13. (Canceled)

14. (Original) The method of claim 12, wherein the donor substrate is a CMP-sialic acid PEG molecule and the acceptor substrate is selected from a protein, a peptide, a glycoprotein, and a glycopeptide.

15-30. (Canceled)